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PATENT
Our Docket: P-HP 3808

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of) Group Art Unit: 1621
Watson-Straughan et al.)
Serial No: 09/632,928)
Filed: August 4, 2000)
For: TRIAMINE DERIVATIVE)
MELANOCORTIN RECEPTOR)
LIGANDS AND METHODS)
OF USING SAME)
Commissioner for Patents
Washington, D.C. 20231

I hereby certify that this correspondence
is being transmitted to the United States
Patent and Trademark Office via facsimile
on October 23, 2003.


David J. Spolter, Reg. No. 36,933

October 23, 2003
Date

RESPONSE TO OFFICE ACTION

Responsive to the Office Action mailed May 6, 2003, entry of the following Amendments and Remarks is respectfully requested. A response was initially due by August 6, 2002. However, a petition for extension, requesting an extension of three months, or until November 6, 2003, along with the corresponding extension fee, is submitted herewith. In addition, the assignee of this application is now claiming small entity status (see attached transmittal). Accordingly, this response is timely filed, with the proper extension fee of \$475.00 submitted herewith.

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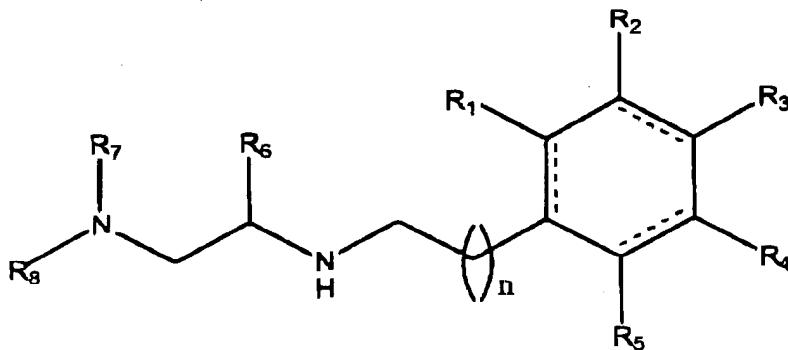
I. AMENDMENTS

Clean version

Please cancel claims 43 and 45 to 47 without prejudice.

Please amend the claims as follows:

1. (Twice amended) A compound of the formula:



wherein:

the dotted lines indicate that the depicted ring is selected from the group consisting of phenyl and cyclohexyl;

n is 0, 1 or 2;

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R_1 to R_5 are, independently, selected from the group consisting of a hydrogen atom, halo, hydroxy, protected hydroxy, nitro, C_1 to C_6 alkyl, C_1 to C_6 substituted alkyl, C_7 to C_{12} phenylalkyl, C_7 to C_{12} substituted phenylalkyl, C_3 to C_7 cycloalkyl, C_3 to C_7 substituted cycloalkyl, C_5 to C_7 cycloalkenyl, C_5 to C_7 substituted cycloalkenyl, phenyl, substituted phenyl, naphthyl, substituted naphthyl, C_1 to C_6 alkoxy, C_1 to C_6 substituted alkoxy, phenoxy, substituted phenoxy, C_1 to C_6 alkylthio, C_1 to C_6 substituted alkylthio, C_1 to C_6 alkylsulfonyl, C_1 to C_6 substituted alkylsulfonyl, phenylthio, substituted phenylthio, phenylsulfonyl, substituted phenylsulfonyl, amino, protected amino, (monosubstituted) amino, protected (monosubstituted) amino and (disubstituted) amino; and when any one of adjacent position pairs R_1 and R_2 , R_2 and R_3 , and R_3 and R_4 and R_4 and R_5 together form a moiety selected from the group consisting of phenyl, substituted phenyl, heterocycle and substituted heterocycle, said moiety fused to the phenyl ring depicted in the above formula such that a bicyclic ring results;

R_6 is selected from the group consisting of C_1 to C_6 alkyl, C_1 to C_6 substituted alkyl, C_7 to C_{12} phenylalkyl, C_7 to C_{12} substituted phenylalkyl, C_{11} to C_{16} naphthylalkyl and C_{11} to C_{16} substituted naphthylalkyl;

where R_7 is absent, R_8 together with the attached nitrogen depicted in the above formula form a substituted heterocycle or a substituted cyclic C_3 to C_7 heteroalkylene, wherein at least one of said substitution is the formula - D-E, wherein D may be absent or present and, if present, is

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selected from the group consisting of C₁ to C₆ alkylene and C₁ to C₆ substituted alkylene; and E is selected from the group consisting of amino, protected amino, (monosubstituted)amino, protected (monosubstituted)amino and (disubstituted)amino group; and

where R₇ is selected from the group consisting of a hydrogen atom, C₁ to C₆ alkyl and C₁ to C₆ substituted alkyl, R₈ is the formula X-CH-Y, wherein the attached nitrogen depicted in the above formula is attached to the carbon atom of the formula X-CH-Y, and wherein X is selected from the group consisting of a hydrogen atom, C₁ to C₆ alkyl, C₁ to C₆ substituted alkyl, C₇ to C₁₂ phenylalkyl, C₇ to C₁₂ substituted phenylalkyl, phenyl, substituted phenyl, naphthyl and substituted naphthyl, and Y is the formula -(CH₂)_n-Z, wherein n is 1 to 6 and Z is selected from the group consisting of amino, protected amino, (monosubstituted)amino, protected (monosubstituted)amino and (disubstituted)amino;

wherein, when a) the depicted ring is phenyl, and b) R₁ to R₅ and R₇ are each hydrogen and c) R₈ is the formula X-CH-Y, where X is benzyl and Y is -CH₂-amino, then R₆ is not benzyl; or

a pharmaceutically-acceptable salt thereof.